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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,420	04/05/2005	Andrei Radulescu	NL03 0771 US	6715

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EXAMINER

KIM, EDWARD J

ART UNIT	PAPER NUMBER
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2455

MAIL DATE	DELIVERY MODE
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10/28/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/530,420	Applicant(s) RADULESCU ET AL.	
	Examiner EDWARD J. KIM	Art Unit 2455	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 July 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 3-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 3-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This office action is in response to the amendment filed on 07/18/2008.
2. Claims 1, 3-7 are pending in this office action. Claim 2 has been cancelled by the Applicant. Claims 1, 3-7 have been amended.

Response to Amendment

3. The Examiner withdraws previous Objections to the Specification.
4. The Examiner withdraws previous 35 U.S.C. 112 and 101 rejections.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Davis et al. (US Patent #5,754,764), hereinafter referred to as Davis.

Regarding claim 1, Davis discloses, an integrated circuit comprising a network and a plurality of electronic modules, said electronic modules being arranged to communicate to each other via the network (Davis, Abstract, col.1 ln.58-61), wherein the network is arranged to establish transactions between a first electronic module and at least two second electronic modules (Davis, col.3 ln.22-45, col.15 ln.19-60, col.27 ln.38-40, col.51 ln.22-42), characterized in that the network comprises means for replicating a single request from the first module into at

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least two replicated requests, and for sending the replicated requests to the second electronic modules (Davis, col.27 ln.38-40, col.51 ln.22-42. It is inherent in multicasting that the message to be multicast are replicated accordingly.), wherein said means for replicating comprises an address space and a facility for mapping at least one multicast address onto at least two further addresses in a range of addresses (Davis, col. 27 ln.38-40, col.51 ln.22-42, col.63 ln.27-46. Davis discloses an address translation table for mapping purposes.).

Regarding claim 3, Davis disclosed the limitations, as described in claim 1, and further discloses, an integrated circuit, wherein the means for replicating further comprises a facility for mapping at least one first multicast address onto at least one second multicast address, provided that the second multicast address is not mapped onto the first multicast address (Davis, col. 27 ln.38-40, col.51 ln.22-42, col.63 ln.27-46.).

Regarding claim 4, Davis disclosed the limitations, as described in claim 1, and further discloses, an integrated circuit, wherein the means for replicating further comprises a facility for mapping a range of multicast addresses onto at least two ranges of further addresses (Davis, col. 27 ln.38-40, col.51 ln.22-42, col.63 ln.27-46.).

Regarding claim 5, Davis disclosed the limitations, as described in claim 1, and further discloses, an integrated circuit, wherein the single request comprises a connection identifier for identifying a multicast connection (Davis, col. 27 ln.38-40, col.51 ln.22-42, col.63 ln.27-46. Davis discloses that the multicast connection is identified via hashing.).

Regarding claim 6, Davis disclosed the limitations, as described in claim 1, and further discloses, an integrated circuit, wherein said means for replicating comprises a network interface circuit for performing the replication of the single request into the replicated requests, and

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wherein the network interface circuit sends the replicated requests to the second modules (Davis, col. 27 ln.38-40, col.51 ln.22-42, col.63 ln.27-46.).

Regarding claim 7, Davis discloses, a method for sending requests in an integrated circuit comprising a network and a plurality of electronic modules, which communicate to each other via the network (Davis, Abstract, col.1 ln.58-61), wherein the network establishes transactions between a first electronic module and at least two second electronic modules (Davis, col.3 ln.22-45, col.15 ln.19-60, col.27 ln.38-40, col.51 ln.22-42), characterized in that the method comprises the network replicating a single request from the first module into at least two replicated requests, and the network sending the replicated requests to the second electronic modules (Davis, col.27 ln.38-40, col.51 ln.22-42. It is inherent in multicasting that the message to be multicast are replicated accordingly.), wherein said means for replicating comprises an address space and a facility for mapping at least one multicast address onto at least two further addresses in a range of addresses (Davis, col. 27 ln.38-40, col.51 ln.22-42, col.63 ln.27-46. Davis discloses an address translation table for mapping purposes.).

Response to Arguments

7. Applicant's arguments filed 07/18/2008 have been fully considered but they are not persuasive.

8. The Examiner has previously noted in the Conclusion section:

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the

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references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

9. The Applicant argues that Davis et al. does not show “the network is arranged to establish transactions between a first electronic module and at least two second electronic modules”, and “means for replicating a single request from the first electronic module into at least two replicated requests” (refer to pg.12 of the Amendment filed 07/18/2008).

The Examiner respectfully disagrees and provides prior art reference to support the statement stating the inherency of message being replicated accordingly in multicast routing. Davis et al. discloses a network system that is capable of carrying out multicasting. In the art of computer networks, multicast routing may be carried out in various ways. The two most basic methods is as follows: (1) via unicasting n point-to-point connections, where the sender/source replicates n number of messages/data/requests (2) via a single multicast connection that is then distributed to more than one multicast destinations by a module other than the sender/source (refer to pg.90 figure 1 of “Multicast routing algorithms and protocols: a tutorial” by Sahasrabuddhe et al., Network, IEEE, Jan/Feb 2000 vol.14 Issue 1, ISSN 0890-8044.). The second basic method discloses “means for replicating a single request from the first electronic module into at least two replicated requests”.

Another additional reference is incorporated with the Office Action, which is an excerpt of a text book used as reading material for students, scanned in 06/14/2002, titled “Chapter 4: Network Layer and Routing”. Refer to section 4.8.1 Introduction: The Internet Multicast Abstraction and Multicast Groups, pg.376, “Explicit multicast”.

Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDWARD J. KIM whose telephone number is (571)270-3228. The examiner can normally be reached on Monday - Friday 7:30am - 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Edward J Kim/
Examiner, Art Unit 2455

/saleh najjar/
Supervisory Patent Examiner, Art Unit 2455